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SUPPLEMENT

Marquette University Bulletin

Summer School

June 25 to August 3, 1917



Milwaukee, Wisconsin

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Marquette University

Milwaukee, Wisconsin

*College of Arts and Sciences.**

Courses in Letters, Sciences and Philosophy, leading to the Bachelor's degree in Arts and Sciences.

College of Applied Science and Engineering.

Courses in Civil, Mechanical and Electrical Engineering, leading to the degree of Bachelor of Science in Engineering.

School of Medicine.

A six-year course leading to the degree of Bachelor of Science and Doctor of Medicine.

College of Law.

- a. The Day Law School, a four-year course leading to the degree of Bachelor of Laws;
- b. The Evening Law School, a four-year course preparing for admission to the bar.

School of Dentistry.

A four-year course leading to the degree of Doctor of Dental Surgery.

*The R. A. Johnston College of Economics.**

- a. A three-year course leading to the degree of Bachelor of Commercial Science;
- b. A four-year course leading to the degree of Bachelor of Science in Economics.
- c. A two-year Diploma Course.

*School of Journalism.**

Courses leading to the degree of Bachelor of Journalism, Bachelor of Arts in Journalism, Bachelor of Literature in Journalism and Bachelor of Science in Journalism, and a Diploma Course.

School of Pharmacy.

- a. A two-year course leading to the degree of Graduate in Pharmacy;
- b. A three-year course leading to the degree of Pharmaceutical Chemist;
- c. A four-year course leading to the degree of Bachelor of Science in Pharmacy;
- d. A short course in Pharmacy.

Training School for Nurses.

Conducted in connection with Trinity Hospital. A three-year course.

Marquette University Conservatory of Music.

Instruction in Piano, Vocal, Violin, Organ and all orchestral instruments. Theory and History of Music, Dramatic Art, Art of Expression, Public School Music, Ensemble and Sight-Reading.

Marquette Academy.

Preparatory Department, Classical and Commercial courses, Courses preparatory to Law, Medicine and Engineering.

Summer School.

Six weeks' session during July and August.

*These Departments also have evening sessions.

MARQUETTE UNIVERSITY.

OFFICERS AND FACULTY, SUMMER SESSION, 1917.

REV. HERBERT C. NOONAN, S. J.....	President
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REV. HUGH B. MACMAHON, S. J.....	Logic; Ontology
REV. JOHN P. McNICHOLS, S. J.....	College English
REV. A. D. THEISSEN, S. J.....	Mathematics

SUMMER SCHOOL.

The Summer School of Marquette University held its first session in the summer of 1909. The purpose of the University in organizing this course during the vacation months was to meet the needs of deserving students whose occupation during the year prevented their attendance on the regular courses of the University, and to give opportunity as well to more ambitious students to make more rapid progress by extra work. Only a limited number of courses is offered, but they are especially designed to be a practical help to the student taking them, either in the way of preparation for college entrance or as part credit toward a degree.

TIME OF SESSION.

The ninth session of the Summer School will begin June 25, 1917, and continue for six weeks to Aug. 3. Laboratory courses may be extended two weeks to Aug. 17. Classes will be held daily except Saturday. The hour-schedule offered in this bulletin is subject to change.

REGISTRATION.

All students intending to take work in the Summer School must register at the college office, Grand Avenue and Twelfth Street, even though they are already registered in some department of the University. The dates for registration are Friday, June 22, and Saturday, June 23.

ENTRANCE REQUIREMENTS.

There are no entrance requirements to any of the courses of the Summer School, except the ability to follow the course with profit, and in particular cases the preparation which the course supposes. But credit toward a degree will be given only on condition that the student qualifies as a regularly matriculated student by meeting the entrance requirements of the school in which he intends to work for a degree.

CREDIT.

Courses marked A will be accepted for entrance requirements; those marked * may be counted toward a degree. In all cases the usual conditions for credit will hold, namely, that the course must be completed successfully and accounts with the University must be settled. A student whose work is satisfactory is allowed one semester credit in the subject taken.

FACULTY.

The professors conducting courses in the Summer School are either members of the University staff itself or of allied Colleges and Universi-

ties, men of experience and technical knowledge. The fact that they hold chairs in their respective branches is guarantee sufficient that they will give entire satisfaction in the summer work. It will be the object of the professors to give personal assistance and encouragement to the students following their courses. To students, therefore, who wish to improve themselves and who are ready and willing to work, Marquette University in its Summer School holds out exceptional advantages.

FEES.

General tuition fee, for the six weeks of the summer session, is twenty dollars (\$20.00); Science course of six weeks, twenty-five dollars (\$25.00); of eight weeks, thirty dollars (\$30.00). For this fee, students may register in any two of the courses offered. Satisfactory results can hardly be secured with more.

Laboratory fee, Chemistry and Physics, three dollars (\$3.00) for each, for use of materials, instruments, etc. For breakage or for damage to the instruments, etc., students will be individually responsible.

Special course in Organic Chemistry, sessions morning and afternoon. Tuition fee, \$50.00.

Students taking this course, may not elect any other course for the session, as it will demand double time.

Seminary (normal) course in teaching modern languages, for teachers of French and German in high schools. For this course, an additional fee of five (5) dollars, over the general tuition fee will be charged.

Diploma fee, \$10.00.

All fees are required in ADVANCE, and for admission to lectures all students must present card from the Treasurer of the University. Only in case of illness will money be refunded.

TEXT-BOOKS.

Wherever a definite text is to be employed, the same has been mentioned in connection with the proper course. Students will, therefore, provide themselves with all necessary books before arriving at the University, as the latter cannot guarantee to have same in stock.

PROSPECTIVE STUDENTS WILL DO US A GREAT FAVOR BY LETTING US KNOW AT THEIR VERY EARLIEST CONVENIENCE WHAT COURSES THEY INTEND TO TAKE IN THE SUMMER SCHOOL.

PHILOSOPHY.

*S4.—Ethics—Fundamental Ethics. Human actions. Imputability. Responsibility. The end of human actions—happiness. The morality of human actions. The essence of morality. The determinants of morality. The objective standard of morality. The directive norms of morality—law and conscience.

Special Ethics.—Right and duty. Duties of man toward God, himself and fellowman. The right of property. Socialism. Human society.—The family. Civil society—its origin, object, authority.

International Ethics. Rights and duties between nations. The character of the rights and duties existing between nations. The doctrine of war.

Text—Coppens "*Moral Philosophy*."

Professor: Rev. G. A. Deglman, S. J.

*S1. Logic. Definition—formal Logic. Elements of Logic; material elements—acts of mind, ideas, judgments, reasoning; external expression of these acts. Formal elements—Inference; immediate, mediate. Principles of reasoning. Kinds of reasoning; deduction, induction. Method, Science.

Criteriology—Material Logic. Truth, its motive; kinds. States of mind with regard to truth—ignorance, opinion, doubt, certainty. Scepticism, its kinds. Certitude, etc., means of attaining it; the cognoscitive faculties. Criteria of certitude; proximate, ultimate.

Authors: Shallo, Poland, Coppens.

Hour: 8:10 to 9:00 A. M. *Five hours a week.*

*S2. Ontology—Being, its concept and essence; transcendental properties of being;—one, true, good. States of being; existence, possibility. Kinds of being; substance, accident. Causes of being; efficient cause, final cause. Perfections of being; finite, infinite, contingent, necessary.

Cosmology—Origion of the world; Monism, Pantheism, Materialism, Creation. Constitution of bodies. Laws of nature. Miracles.

Authors, as for Logic, above.

Hour: 10:10 to 11:00 A. M. *Five hours a week.*

Professor: Rev. H. B. MacMahon, S. J.

ENGLISH.

*SC1. Poetry.—Fundamental Concepts. Beauty: The teaching of the masters. The varied definition. A working theory. The range of art. The æsthetic essential. The consequent limitations. The expression of the beautiful. The field of Literature. Poetry.

The Function of Poetry. Shakespeare. A poet and his concept. The abstract and the concrete. Imagination and fancy. The Theme. The application to the species of Poetry. The creation of the ideal. The teaching office.

N. B.—In this course, the theory of poetry will be taught with a special view to practical application to college work.

Professor: Rev. John P. McNichols, S. J.

Hour: 11:00 to 12:00.

SA3-SA4.—High School English. (Classes will be formed in case the number of applicants warrants: at least five applicants must present their request for this course.)

The work will be on the subject matter of third or fourth year, as may be desired by majority of applicants. Hour of class undetermined. The text-book will be Hill's Principles of Rhetoric. (American Book Co.)

Professor: Rev. Joseph A. Murphy, S. J.

HISTORY.

*SC6. From Feudalism to Liberalism, 14th to 18th century.

A.—Decline of the mediæval Moral and Political Ideals. The new spirit. Exiled Popes.—Great Western Schism.—Schism in the Empire.—Wycliffe and Huss.—War of 116 years.—Rise of France.—War of the Roses.—Islam in eastern and western Europe.—The Inquisition.—Humanism and moral decline.—Change of social conditions.

B.—The era of the religious revolution. Election of the Emperor Charles V, (Charles I, of Spain).—French rivalry.—The German reformer and his work.—Social revolutions in the Empire.—England's tyrant and reformer.—Spread of religious innovations.—Edward VI.—Mary Tudor and Elizabeth.—Mary Stuart.—Philip II, a true king.—Revolt of the Netherlands.—Rebellion in France.—Catholic revival. Thirty Years' War.—Gustavus Adolphus and Wallenstein.—Civil war in England.—Suffering Ireland.—Richelieu and Mazarin.—Louis XIV.—Turkish Wars.—Peter the Great and the new Russia.

Professor: Rev. William Engelen, S. J.

Hour: 9:00 to 10:00.

SOCIAL SCIENCE.

*SC1. A.—Ethical principles; morality and its norm; Natural Law; Rights and Duties; Social man; the bonds of Human Society; Conflict of rights; Private property; Interest-taking; The Family; The State; its causes, rights and duties; Christianity and the State; the moral organism; social prosperity; right and necessity of organization: national representation.

B.—Principles applied to modern society; test-case; Needs of social reconstruction;—causes of the social evils; Liberalism;—a false remedy. Socialism;—temporary remedies;—Charities;—modern philanthropy. Modern Workmen's and Farmers' Unions. Feudalism and Capitalism compared. Capital and Labor. Living wage; strikes and labor laws. A lesson from the Middle Ages. The true remedy. Solidarism. Woman's position in modern society.

Professor: Rev. William Engelen, S. J.

Hour: 11:00 to 12:00.

*SC3. Collegiate work in Latin will be taken according to the desire

LATIN.

of applicants, if at least five students present themselves for this subject.

Authors offered: *Horace*: Epistles and Satires. *Cicero*: *Somnium Scipionis*, *Tusculan Discussions*. *Tacitus*: *Germania*: *Livy*, Books 21, 22.

Professor: Rev. Joseph A. Murphy, S. J.

GREEK.

A class will be formed for the study of Greek, if the number of applicants warrants, for first, second or third year course.

FRENCH.

SA1. Elementary course. The opening lessons are devoted exclusively to oral work. Grammar; conjugation of *avoir* and *etre*; gender and plural of nouns; regular verbs; possessive and demonstrative adjectives and pronouns; the partitive article; most important irregular verbs; reading of easy selections in prose and verse; conversation.

*SC1. Advanced course. French syntax; careful consideration of the subjunctiv, *participe passé*, *article partitif*; *passé défini*; French idioms. classes conducted in French. Reading to be selected from the following texts: Halévy; Abbé Constantin; Scribe; *Un Verre d'Eau*; Pailleron; *Le Monde où l'on s'ennuie*; Erkman-Chatrian; *Le Conscriit de 1813*; Emil Souvestre; *Le Philosophe sous les toits*.

Hour: 11:00 to 12:00 A. M. *Five hours a week*.

Professor: Mr. B. A. Abrams.

For the intermediate course special arrangements will have to be made at the University, as that course will be given only in case the number of applicants warrants it.

*SC2. Literature and composition. Lectures on history of French literature. Study of French classics: composition, etc. Classes conducted in French.

Professor Abrams will arrange for class-hour to suit convenience of students.

*SC3. Seminary (normal) course in pedagogy of classes in French and German, for High Schools. A special class for teachers only. (Extra fee.)

Hour: 1:00 to 2:00 P. M.

Professor: Mr. Bernard A. Abrams.

SPANISH.

SA1. An elementary course will be preesnted if the number of applicants warrants it.

Text: *De Vitis*, First Spanish Book and Reader. (Allyn and Bacon.)

Professor: J. Hernandez, B.S.

GERMAN.

SA1. Elementary course. Conjugation of verbs, weak and strong; nouns; adjectives and pronouns; distinctive features of German syntax; reading of easy selections in prose and verse; conversation.

Hour: 8:00 to 9:00 A. M. *Five hours a week.*

SA2. Intermediate course. Thorough review of the essentials of German grammar; syntax; readings; composition; classes conducted in German.

*S3. Odvanced course. Grammar in connection with reading; translation and composition; Reading to be selected from the following texts: Lessing, Minna von Barnhelm; Goethe, Herman and Dorothea; Uhland, Goethe and Schiller's Balladen; Dippold, Scientific Reader; Composition based on reading matter and on subjects taken from daily life. Lectures on important topics. Classes conducted in German.

Hour: 9:00 to 10:00 A. M. *Five hours a week.*

Professor: Mr. B. A. Abrams.

For the intermediate course special arrangements must be made at the University, as that course will not be given unless there is a sufficient number of applicants.

MATHEMATICS.

*S6. Advanced Algebra. A thorough, but brief review, of the foundations is given (negative and irrational numbers, indices and proportion, graphic and analytic discussion of linear and quadratic equations)—after which the following subjects are treated: Permutations and combinations, theory of limits, introduction to theory of series (arithmetic, geometric, binomial logarithmic series with undetermined coefficients and their applications, tests of convergence)—elements of theory of equations, complex numbers.

Hour: 8:00 to 9:00 A. M. *Five hours a week.*

Text: *Fite*, College Algebra (Heath).

*S5. Trigonometry. The functions of angles; the solution of the right and oblique plane triangles, with use of logarithmic tables.

Text: Kenyon-Ingold, Trigonometry. (Macmillan.)

Hour: 10:10 to 11:00 A. M. *Five hours a week.*

Professor: Rev. A. D. Theissen, S. J.

*S7. Analytic Geometry. Loci and equations; the straight line; the circle; systems of co-ordinates; parabola; ellipse; hyperbola; higher plane curves.

Text: Smith and Gale, New Analytic Geometry. (Ginn.)

Hour: 11:00 to 12:00 A. M. *Five hours a week.*

*S8. Calculus. Differential and Integral Calculus; MacLaurin's and Taylor's theorems; maxima and minima; evolutes and envelopes; tracing of curves; the definite integral; lengths and areas of plane curves, surfaces and volumes of solids of revolutions; applications to mechanics.

Text: Osborne. (Heath.)

Hour: 11:10 to 12:00 A. M. *Five hours a week.*

Professor: Joaquin Hernandez, BS..C.E.

PHYSICS.

*S5. Advanced course.

Text: Carhart.

(1) Mechanics: (a) Kinematics, or motion of bodies; (b) Dynamics, or the causes of change of motion; (c) Properties of fluids and gases.

(2) Magnetism: Magnets and Magnetic Fields.

(3) Electricity: (a) Electrostatics: (b) Current Electricity: (c) Electro-Magnetism: (d) Electromagnetic Induction: (e) Dynamo-Electric Machines.

Hour: 9:00 to 10:00 A. M. *Five hours a week.*

Laboratory two hours from 10:00 to 12:00.

Lecturer: Rev. J. B. Kremer, S. J.

CHEMISTRY.

*S3. General Inorganic Chemistry. The fundamental laws and theories of Chemistry. The elements; symbols and chemical formulae; the development of the chemical formula; chemical equations; the laws of Avogadro, Charles and Boyle; changes of gas volume; gas densities; Gay Lussac's law of combining volumes; ionic theory; equilibrium; metallic and non-metallic elements and their compounds.

Text : Smith, College Chemistry.

*S4. Analytical Chemistry. Qualitative analysis. The Chemistry of the metals, their most important salts, the explanation of the various chemical groups, and of the methods of separation and detection of the common metallic and of certain rare elements; the analysis of the acid radicals; solution of ores, minerals, rocks, alloys and inorganic substances in presence of organic matter.

Text: Noyes, System of Qualitative Analysis for the Common Elements (supplemented by laboratory notes).

*S5. Analytical Chemistry. Quantitative Analysis. Through individual laboratory instruction, great stress is laid upon care and accuracy. The course is divided into two parts. The first half is devoted to gravimetric and the remaining time to volumetric analysis.

(a) Gravimetric. A selected number of determinations of basic and acid constituents to illustrate the different conditions of precipitation; washing, drying and weighing of precipitates; followed by methods of precipitation. The electrolytic determination of copper and silver are included.

(b) Volumetric. The use and calibration of volumetric apparatus; selection and use of indicators; making and standardizing of volumetric solutions; a selected number of determinations by acidimetric, alkalimetric, oxidimetric and precipitation methods.

Text: Moody, Quantitative Chemical Analysis.

Hour: 8:00 to 9:00 A. M. *Five hours a week.*

Laboratory two hours between 9:00 to 12:00.

*SC3. Organic Chemistry.—Special course. (See page . .)

Professor: R. N. Bauer, Ph.G., B.S.

MECHANICAL DRAWING.

SC1. Use of drawing instruments; practice plates; geometrical constructions; orthographic, isometric and cabinet projections; lettering, free-hand and with instruments.

The work is intended to give the student the requisite neatness and rapidity in handling drawing instruments.

SC2. (For Civil Engineers.) Design of simple machine parts; section of standard roads and streets; standard catchbasins, culverts, bridge piers, abutments and timber trestles.

SM2. (For Mechanical Engineers.) Elementary machine design Standard bolts, rivets, nuts, nut locks, screw threads, anchor bolts, bearings, hangers, etc.

SC3. Descriptive Geometry. Points, lines, planes and solids in the four quadrants; intersections of planes and solids; developments; principles of perspective and shades and shadows.

Monday and Tuesday—from 1:00 to 5:00 P. M.

SURVEYING.

SC5. The construction, use and adjustment of tape, compass, level and transit. The course is supplemented by library work and reports.

Hour: 10:00 to 11:00 A. M.; 2:00 to 5:00 P. M.

Professor: John C. Davis, C.E.

BIOLOGY.

SA1. An elementary course in Biology including lectures and laboratory work, will be conducted by a member of the Biological department of Marquette Medical School, provided there is a sufficiently large number of applicants for the course.



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CONSERVATORY OF MUSIC.

223 Tenth Street.

1917 Summer Course in Music, June 25 to August 3.

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Violin	VIOLIN NORMAL COURSE	Mandolin
Harp	PUBLIC SCHOOL MUSIC COURSE	Banjo
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